



August 21, 2023

**El Paso County**  
Planning and Community Development Department  
2880 International Circle, Suite 110  
Colorado Springs, CO 80910

Attn: Brad Walters  
Inspection Supervisor

**Re: Security Fire Station No. 4 – 7600 Wayfarer Drive (PPR-20-029, CON-22-028)**  
**Engineer's Punch List Response**  
**M.V.E. Project No. 61134**

Dear Mr. Walters:

This letter is the engineer's response to Preliminary Acceptance Punchlist issued for the project on 5/24/2023. Responses, if any, are in bold type.

Stormwater Inlet Structures:

- Undercutting occurring at riprap rundown at southeast corner of pond – **Engineer requested that the voids in rip-rap be filled with 3/4" to 3" rock to protect fine material beneath the larger riprap rock.**
- Area drain at north east corner requires re-grading to promote positive drainage. - **The area drain and grading at the northeast corner of the building are observed to be installed according to the plan functioning as intended with positive drainage to the inlet and away from the building. No changes are necessary.**

Pond:

- Riser pipe for underdrain needs to be cut to an appropriate height. - **This item was observed to be complete at the time of the engineer's walk with pipe cut to proper height.**
- Gasket/caulking missing from orifice plate. - **Contractor agreed to add the gasket.**
- Restrictor plate missing two bolts. - **Contractor agreed to add the missing bolts.**
- Cleanout pipe was installed with slotted PVC pipe. Replace cleanout with solid pipe, otherwise stormwater can bypass the filtration media and go straight into the underdrain. - **Contractor agreed to install a solid pipe for the cleanout riser.**
- Space between microscreen and orifice plate is not enclosed as shown on plans. This is a maintenance concern. In the field we discussed potentially bolting on a metal plate to cover the gap. Discuss options with project engineer. - **Contractor agreed to install a plate to close off the referenced gap.**
- Section A-A shows the dimension from the invert of the underdrain to the bottom of the orifice plate at 30". However, the field measurement was closer to 34". Make sure that this difference is reflected on the as-built plans and on the updated UD-Detention spreadsheet, because that may have affected the elevation of the orifice holes. - **The invert of the underdrain at the box interface was constructed 0.20' lower than the elevation shown on Section A-A. The elevation of the three orifice holes in the orifice plate are within survey tolerance of the design elevations shown on the plan. The as-built drawing indicates the as-built elevations. Top of box elevation, and spillway crest elevation is also located within survey tolerance of**

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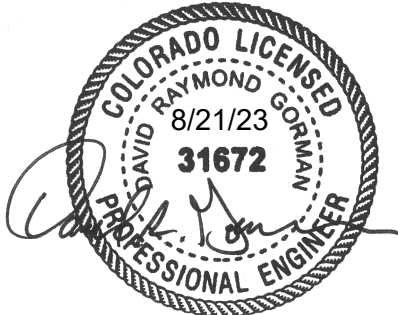
**the design elevations. The UD-Detention Worksheet has been updated to reflect the revised underdrain outlet elevation which slightly decreases drain times of the EURV and 2-yr storm by one hour, but remains within state requirements for drain times. There is no need to update the SDI for this pond.**

• Similar comment for the invert of the outlet pipe: Section A-A shows the invert of the outlet pipe to be elevated 1-5/8" above the bottom of the outlet structure. But it was instead installed flush with the bottom. Reflect on as-built drawings and calcs. - **The elimination of the 1 5/8" gap for the outlet pipe is shown on the As-Built and included on the updated UD-Detention Worksheet. No significant changes to the pond operation result.**

Please have your engineer submit the following items (if they haven't already):

- Engineering Record Drawings (as-builts) consistent with Section 5.10.6 of the ECM. - **Submitted.**
- Volume Certification Letter(s) for pond(s), see ECM Chap 5.10.6.B for details on what type of statement should be included in the letter. - **Submitted.**
- Re-submit UD-Detention spreadsheet per changes shown in as-builts. Can be included with Cert Letter. - **Submitted.**

o If significant changes, would need to also submit an updated SDI Form. **No significant changes to the pond operation as a result of as-built data. No need for updated SDI Form.**



David R. Gorman, P.E. Colorado No. 31672  
For and on Behalf of M.V.E., Inc.

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